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Patent

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Christoph Schwald
Serial No: 10/664,589
Filed: September 17, 2003
For: WIRELESS HEADPHONES WITH CONNECTOR SOCKET
Examiner: Andrew Wendell
Art Unit: 2618

Mail Stop: Amendment
Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

S I R:

The present information disclosure statement is being submitted after the issuance of a first official action but before the issuance of a final action or a notice of allowance. Enclosed is a credit card payment form in the amount of \$180 in payment of the government fee for filing an information disclosure statement

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after a first action on the merits but before a final rejection or a notice of allowance.

The attention of the Examiner is hereby directed to the references listed on the attached form PTO-1449. A copy of the reference is forwarded herewith.

The enclosed references were cited in Japanese and Chinese applications corresponding to the present application.

A translation of the text of the Chinese office action is enclosed.

JP 2001-357940 relates to an electrical plug, optic fiber plug and transmission equipment. In one embodiment of this invention, each type of the inserted plugs 23, 27, 45 is identified by the formula identification device and the insertion identification means. The analog plug 23 (fig.13) comprises the sleeve part 23a, the tip part 23b, the ring parts 23c, 23d, which are connected to each of the electrical connection end terminals 24a-24d, when the analog plug 23 is inserted into the transmission equipment (fig.14). On the other hand, the fiber optic plug 27 (fig.11) comprises the insulating part 56 and the

metal body 57, which are connected to each of the electrical connection end terminals 24a-24d, when the fiber optic plug 27 is inserted into the transmission equipment (fig.12). The digital electrical plug 45(fig.15) comprises the insulating parts 52,53,59 and the ring parts 23b,c,d which are connected to each of the electrical connection end terminals 24a-24d, when the digital electrical plug 45 is inserted into the transmission equipment (fig.16). As shown in the figs. 11, 13 and 15, each identification design 44, 43 and 46 is different from each other, because the alignment of those insulating parts, ring parts and metal part, etc. is different in each plug. Identification of each inserted plug 23, 27, 45 is achieved by electrical continuity between the metal plates 24b-24d and the identification end terminals 61-63 (for example in fig .12, electrical continuity between the metal plate 24d and the metal plate 62 is not found because of the insulating part 56, while, the electrical continuity between the metal plate 24d and the metal plate 62 is found because of the sleeve 23a, ring part 23d (fig. 14)).

Japanese utility model Application No.54-105482(JP,56-22880) relates to a wireless-earphone device. Fig .11 is showing the earphone device body and its circuit configuration. Fig.12 is

showing a different circuit configuration than fig. 11. The earphone device body 11 (fig. 11 (a)) is an earphone device body which is switchable between wireless state and wired state as needed. The plug 81 is a plug which is connected to the sound equipment such as amplifier. The plug 82 is a plug which is connected to the earphone device body 11. The following is a brief description of the circuit configuration in the earphone device body 11(fig.11(b)). The jack 85 is a jack to which the plug 82 is inserted. When the plug 82 is not inserted into the jack 85, the movable contact 85₁ is connected to the fixed contact 85₂ and the output signal from the reception part 22 is transmitted to the sounding part 23. On the other hand, when the plug 82 is inserted into the jack 85, the movable contact 85₁ is connected to the fixed contact 85₃ and the wired-state-signal is transmitted to the sounding part 23. In addition, when the plug 82 is not inserted into the jack 85, the switch 15 is in on-state and the battery 86 supplies electricity to the reception part 22. When the plug 82 is inserted into the jack 85, the switch 15 is in off-state and the battery 86 is charged up by the diode 87₄ and the transformer 87₃ etc. In fig.12, the output signal from the reception part 22 is transmitted to the amplifiers 91,92. The output signals from the amplifiers 91,92 are transmitted to the sounding bodies 95,96 via jacks 93,94. The headphone 97 can be

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used either in the wireless-state or in the wired-state depending on connection and disconnection of the plugs 961,982 to the jacks 93,94.

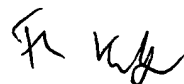
The present invention defines specific wireless headphones with a connector socket which are not believed to be disclosed by the enclosed references.

With the submission of this admitted prior art applicant complies with the duty of disclosure as set forth at 37 C.F.R. 1.56.

Any additional fees or charges required at this time in connection with this application may be charged to Patent and Trademark Office Deposit Account No. 11-1835.

Respectfully submitted,

By



Friedrich Kueffner
Reg. No. 29,482
317 Madison Avenue, Suite 910
New York, New York 10017
(212) 986-3114

Dated: November 10, 2006



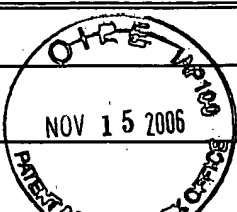
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CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, PO Box 1450 Alexandria, VA 22313-1450, on November 10, 2006.

By: *FK*
Friedrich Kueffner

Date: November 10, 2006

APPLICANT'S ART CITATION (Use several sheets if necessary)	Application 10/664,589		File No. BP-86
	Applicant Christoph Schwald		
	Filing Date September 17, 2003		Group Art Unit 2618

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date MM-YYYY	Name	Class	Sub-class	Filing Date If Appropriate
	US-5113428	05/1992	Fitzgerald			
	US-					
	US-					
	US-					
	US-					
	US-					
	US-					

FOREIGN PATENT DOCUMENTS

	Document Number	Date MM-YYYY	Country	Class	Sub-class	Translation	
						Yes	No
	CN2407532Y	11/2000	China				X
	CN2501198Y	07/2002	China				X
	JP56-22880		Japan				X
	JP2001-357940	12/2001	Japan				X

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner
Date Considered

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.